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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. KAZUHIKO MARUTA MARUTA=3C 1033 09/419,305 10/15/1999 EXAMINER 1444 7590 11/25/2003 BROWDY AND NEIMARK, P.L.L.C. PROUTY, REBECCA E 624 NINTH STREET, NW ART UNIT PAPER NUMBER SUITE 300 WASHINGTON, DC 20001-5303 1652

DATE MAILED: 11/25/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		<del>,</del>
Advisory Action	Application No.	Applicant(s)
	09/419,305	MARUTA ET AL.
	Examiner	Art Unit
	Rebecca E. Prouty	1652
Th MAILING DATE of this communication ap	ppears on the cover she t with the	correspondence address
THE REPLY FILED 23 October 2003 FAILS TO PLACE Therefore, further action by the applicant is required to final rejection under 37 CFR 1.113 may only be either condition for allowance; (2) a timely filed Notice of Applexamination (RCE) in compliance with 37 CFR 1.114.	o avoid abandonment of this appli : (1) a timely filed amendment wh peal (with appeal fee); or (3) a tim	cation. A proper reply to a ich places the application in
PERIOD FOR I	REPLY [check either a) or b)]	
a) The period for reply expires 3 months from the mailing date b) The period for reply expires on: (1) the mailing date of this A event, however, will the statutory period for reply expire late ONLY CHECK THIS BOX WHEN THE FIRST REPLY WA 706.07(f).	Advisory Action, or (2) the date set forth in the rithan SIX MONTHS from the mailing date of AS FILED WITHIN TWO MONTHS OF TH	of the final rejection. E FINAL REJECTION. See MPEP
Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).		
1. A Notice of Appeal was filed on Appellant's Brief must be filed within the period set forth in 37 CFR 1.192(a), or any extension thereof (37 CFR 1.191(d)), to avoid dismissal of the appeal.		
2. The proposed amendment(s) will not be entered because:		
(a) they raise new issues that would require further consideration and/or search (see NOTE below);		
(b) they raise the issue of new matter (see Note below);		
(c) they are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or		
(d) They present additional claims without canceling a corresponding number of finally rejected claims.		
NOTE:		
3. Applicant's reply has overcome the following rej	jection(s):	
4. Newly proposed or amended claim(s) would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).		
5. ☐ The a) ☐ affidavit, b) ☐ exhibit, or c) ☒ request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet.		
6. The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly raised by the Examiner in the final rejection.		
7.☐ For purposes of Appeal, the proposed amendment(s) a)☐ will not be entered or b)☒ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.		
The status of the claim(s) is (or will be) as follows:		
Claim(s) allowed: none.		
Claim(s) objected to: none.		
Claim(s) rejected: 1.		
Claim(s) withdrawn from consideration: none.		
8.☐ The drawing correction filed on is a)☐ approved or b)☐ disapproved by the Examiner.		
9. Note the attached Information Disclosure Statement(s)( PTO-1449) Paper No(s)		
10. Other:	•	Rebecca E. Prouty
		Primary Examiner Art Unit: 1652

U.S. Patent and Trademark Office PTOL-303 (Rev. 11-03) Continuation Sheet (PTOL-303) 09/419,305

Continuation of 5. does NOT place the application in condition for allowance because: the amendment to Claim 1 do not overcome the enablement and new matter rejections of the claim. While as applicants argue the specification provides support for variants of SEQ ID NO:1 in which one or more amino acids are replaced, deleted or added, the further limitation of not having the amino acid sequence of SEQ ID NO:3 and/or SEQ ID NO:4 defines a subgenus not contemplated in the specification as filed. As such this recitation introduces new matter. Applicants argue that the enablement rejection should be withdrawn as mutagenesis techniques as well as assay techniques are routine in the art and could be used to define substitutions which could be made. While such techniques might be sufficient for one of ordinary skill in the art to make and use variants with only a few substitutions by making several variants and testing for those which retain the claimed properties, such experimentation would clearly be undue for those polypeptides with large numbers of substitutions as the likelihood of a variant sequence retaining the claimed properties of the native polypeptide decreases substantially with each additional mutation while the number of possible variants which could be made increases exponentially. As such the claimed variants (i.e., those which retain the claimed physicochemical properties of the native polypeptide) with larger numbers of mutations are a very minute fraction of the possible variants which could be made and the experimentation required to make and test all the possibilities would clearly be undue.